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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/818,313	03/27/2001	Chii-Hwang Chang	67,200-392	1765
7	590 06:01/2005		EXAMINER	
TUNG & ASSOCIATES Suite 120			MOORE, KARLA A	
838 W. Long Lake Road			ART UNIT	PAPER NUMBER
Bloomfield Hills, MI 48302			1763	
			DATE MAILED: 06/01/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

·	Application No.	Applicant(s)			
	09/818,313	CHANG ET AL.			
Office Action Summary	Examiner	Art Unit			
	Karla Moore	1763			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply if NO period for reply is specified above, the maximum statutory period version of the period will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tim y within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on <u>03 M</u>	larch 2005.				
	action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E					
Disposition of Claims					
4) Claim(s) 1-6 and 13-18 is/are pending in the a	pplication.	•			
4a) Of the above claim(s) is/are withdraw	•				
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-6 and 13-18</u> is/are rejected.		·			
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/o	r election requirement.				
Application Papers					
9) The specification is objected to by the Examine	r				
10) ☐ The drawing(s) filed on <u>27 March 2001</u> is/are:		hytho Evaminor			
Applicant may not request that any objection to the		-			
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex					
The dath of declaration is objected to by the Ex	animer. Note the attached Office	Action of form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) or (f).			
a) ☐ All b) ☐ Some * c) ☐ None of:					
1. Certified copies of the priority documents	s have been received.				
2. Certified copies of the priority documents	s have been received in Application	on No.			
3.☐ Copies of the certified copies of the prior					
application from the International Bureau		ŭ			
* See the attached detailed Office action for a list	1 7	d.			
Attachment(s)	· ·				
1) Notice of References Cited (PTO-892)	4) Interview Summary (PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Dai	te			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal Pa	atent Application (PTO-152)			
U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Office Ac	tion Summary	Part of Paper No./Mail Date 0505			

DETAILED ACTION

Specification

1. The abstract of the disclosure is objected to because it is too long. Correction is required. See MPEP § 608.01(b).

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1-6 and 13-18 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent No. 6,122,566 to Nyugen et al.
- With respect to claims 1 and 13, Nyugen et al. disclose a method for operating a multichamber fabrication tool comprising: providing a multi-chamber fabrication tool comprising a series of chambers (Figure 1, 10; column 1 rows 22-27); defining for each chamber within the series of chambers a minimum of one fabrication process to provide a series of fabrication processes corresponding with the series of chambers, wherein (1) at least one fabrication process may be undertaken within more than one chamber (column 9, rows 29-40) and (2) at least one chamber has defined therein more than one fabrication process including the at least one process which may be undertaken within more than one chamber (column 1, rows 27-32); processing

within the multi-chamber fabrication tool a substrate while employing the at least one fabrication process which may be undertaken within the more than one chamber, wherein a chamber within which is processed the substrate while employing the at least one fabrication process which may be undertaken in more than one chamber is selected such as to optimize utilization of the multi-chamber fabrication tool (column 2, rows 50-53).

- 5. With respect to claims 2 and 14, the substrate is employed within a microelectronic fabrication selected from the group consisting of integrated circuit microelectronic fabrications, ceramic substrate microelectronic fabrications, solar cell optoelectronic microelectronic fabrications and display image array optoelectronic microelectronic fabrications (column 4, rows 11-14).
- 6. With respect to claims 3 and 15, the series of chambers comprises at least about 4 chambers (see Figure 1).
- 7. With respect to claims 4 and 16, the series of fabrication processes is selected from the group consisting of vacuum etch processes, vacuum deposition processes and vacuum implantation processes (column 1, rows 22-32).
- 8. With respect to claims 5 and 17, the method further comprises defining a series of chamber constraints for the series of chambers (column 5, rows 40-59 and column 6, rows 16-26); defining a series of process constraints for the series of processes (column 5, rows 40-59 and column 5, row 60 through column 6, row 15); and defining a series of substrate constraints for the substrate (column 5, rows 40-59 and column 11, rows 23-58).
- 9. With respect to claims 6 and 18, in the method, the series of chamber constraints, the series of process constraints and the series of substrate constraints is prioritized through use of an

algorithm when selecting the chamber within which is processed the substrate (see Figures 8A-8G).

Response to Arguments

10. Applicant's arguments with respect to claims 1-6 have been considered but they are not persuasive. Applicant argues that the prior art fails to disclose Applicant's limitation that reads "processing within the multi-chamber fabrication tool a substrate while employing the at least one process which may be undertaken in more than one chamber" and thus does not read on Applicants claim. Examiner disagrees with this argument and the interpretation of the prior art, as well as Applicant's interpretation of the claim set forth in the arguments. With respect to the interpretation of the claim, kaminer also notes that from the final line of page 1 through line 5 on page 2 of Applicant's arguments, Applicant lays out the two features that are claimed in clause 2 of claim 1. Examiner disagrees with Applicant's interpretation of the requirements of this clause because the claim clearly recites that the process "may be undertaken in more that one chamber", not that the process "is undertaken in more than one chamber". There is a difference. Nguyen et al. clearly teach that at a given point "the next" fabrication process might be performed in more that one chamber. This is evidenced by the fact that there is a routine/algorithm to determine which of a group of destination chambers may be available for accommodating a wafer for a next fabrication step (based on which chambers are currently executing a fabrication process and/or the time remaining in a current fabrication process in a destination chamber) and selecting a next chamber for a next fabrication process, accordingly. This feature of the prior art (described at column 9, rows 29-46) reads on Applicant's claimed invention, which only requires that "at

least one fabrication process *may be* undertaken within more than one chamber" and, further, does not specify and/or limit what type of process may be undertaken in within more than one process chamber.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karla Moore whose telephone number is 571.272.1440. The examiner can normally be reached on Monday-Friday, 8:30am-5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Parviz Hassanzadeh can be reached on 571.272.1435. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

km

30 May 2005

Parviz Hassanzadeh

Supervisory Patent Examiner

Art Unit 1763